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ABSTRACT

This booklet serves as an introduction to the Research Clearinghouse of South Australia. The first section explains how to find a particular project in the booklet and how to obtain copies of project materials from the Clearinghouse. In the introduction, the Clearinghouse's objectives are spelled out, and its relation to the ERIC (Educational Resources Information Center) system defined; also provided is an explanation of how one can contribute to the Clearinghouse. Most of the booklet contains project descriptions (121) that are available for retrieval. Each project is indexed by college, topic, and author/contact person. A topic index and a list of descriptive words are supplied towards the back of the booklet. An example of a project is shown, together with a key which gives an indication of how the various sub-headings and codes fit the overall plan. Finally, a summary of services provided by the Clearinghouse and a feedback sheet are included. (CT)

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Initiatives in Further Education in South Australia

VOLUME 3 NUMBER 1 1976-77

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Department of Further Education, South Australia

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) AND USERS OF THE ERIC SYSTEM."

Research Clearinghouse

Department of Further Education

South Australia

Department of Further Education
South Australia Dec. 1977
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Department of Further Education, South Australia

D. J. WOOLMAN, Government Printer, South Australia

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LOCATING A PROJECT WITHIN THIS BOOKLET

Consult the list of describing words (beginning on page 47) to find the word closest in meaning to the topic of interest.

Refer to the topic index (beginning on page 31) to locate the group of projects under the particular describing word. Note the accession number.

Locate the appropriate project (beginning on page 9).

Materials relating to the projects, can be located either by communicating directly with the contact person (see page 39 for addresses and telephone numbers of colleges and other centres), or borrowing the material on inter-library loan from the Education Centre Staff Library, or obtaining a copy from the Research Clearinghouse.

HOW TO OBTAIN COPIES OF PROJECT MATERIALS FROM THE RESEARCH CLEARINGHOUSE

You can use any of the three methods listed beiow to obtain microfiche, or perhaps hard-copy material direct from the Research Clearinghouse.

Telephone: The Clearinghouse Officer
on (08) 227 4928

OR

Write to: The Clearinghouse Officer,
Research Branch,
Department of Further Education,
Box 2352, G.P.O.,
ADELAIDE 5001

OR

Call at: 11th Floor,
Education Centre,
Cnr. Gawler Place and Flinders Street,
ADELAIDE

Introduction

Teachers are naturally inquisitive. The Research Clearinghouse, of which this booklet is a part, aims to satisfy the needs of inquiring teachers and administrative staff in further education and beyond. It provides information about new initiatives in teaching, learning, educational administration, curriculum development, educational technology—in fact, the interested reader will find mention made of just about any topic connected with technical and further education.

It collates and systematises the ideas of staff from across the whole spectrum of further education in South Australia. This is an important publication because it chronicles many of those hopes and desires, expectations and realisations that educationists experience from time to time. The entries in the index are as various as the staff employed. Topics are as diverse as the multitude of situations for which further education caters.

Broadly speaking, the contents of this volume document initiatives taken by members of the Department of Further Education. In some cases they provide a direct means of coping with present situations. They also constantly provide a vision for the future.

OBJECTIVES

The research clearinghouse system, of which this booklet is a part, has been designed to achieve the following objectives:

1. *To encourage research and innovation so that it can be carried out in a systematic and critical manner.*

This is possibly the most important objective because it places emphasis on all teachers approaching educational and technological problems in a logical fashion. In addition, it produces an involvement and hence a commitment to investigation which must improve understanding and sharpen the critical powers.

It is important that the time lapse between recognised need and the innovation to meet the need, be as small as possible. One aim of the clearinghouse system is to reduce significantly the time lapse, and so accelerate useful change. This will be done by including projects that deal more specifically with innovations designed to satisfy a recognised need. The Research Branch of the Department is particularly concerned that this objective be achieved as effectively and as rapidly as possible.

2. *To promote both educational and technological investigations.*

Investigations in the educational field include for example, studies of student retention rates, preparation, production and evaluation of new learning materials, and the introduction of different learning techniques. The aim of this type of study is to upgrade knowledge of the learning process, particularly as it relates to the person who has completed the compulsory phase of his primary and secondary schooling. This knowledge can then be applied for the benefit of the student and community. Some examples of applied technological investigation include study of various methods of utilising solar energy and the examination of specialised machining processes. Much of this effort will concentrate on translating findings from the technological area into educational terms. There is one other aim behind this bridging operation and that is, to speed up the process of useful technological change within the community.

3. To encourage the widespread dissemination of research and development projects.

Any person requiring information about a group of projects or an individual project, can contact the person(s) concerned or if he wishes, approach the Education Centre staff librarian and/or the Research Branch of the Department of Further Education.

The avenue of approach will depend on a number of factors. For example, whenever a large amount of detailed information is required, it may be appropriate for the Research Branch to provide the service required.

Many of these projects will be upgraded from time to time (a chain reference is included in all except the first issue of the booklet so as to aid the searching process). This will provide a method of gauging the amount of development for a given investigation. For example, a group of projects may come together as a generalised study because of communication resulting from the clearinghouse material.

4. To encourage or catalyse others to become involved.

Provided there is ready access to someone directly involved in a particular project, then this may be sufficient encouragement for others to approach that person. For example, in many cases contact can be made by telephone once the person and the institution to which he is attached, are identified. This booklet provides the method of access.

Sometimes a communication may lead to the involvement of the inquirer in the actual project itself. On other occasions it may inspire that person to set up a project that takes the idea a step further. This is likely to be particularly true for the development of new learning materials. In any case, final version learning materials resulting from these projects are more likely to be both educationally and technically of higher quality than they would be if the grass roots development stage was omitted.

In short, the 'grass roots' effect is considered to be most important and useful, especially when operating in conjunction with the 'ripple' effect. The combination of the two effects considerably enhances the quality of output.

5. To avoid unnecessary duplication of expensive human and material resources.

Without a clearinghouse system, people involved in investigation activity (and this, of course, concerns all teachers) may be engaged in exactly the same work as someone else, yet be totally unaware of this duplication of effort. The aim of the clearinghouse system is to decrease as far as possible the problem of isolation. In this way, precious human and material resources can be placed to the best advantage.

6. To provide avenues for publication and dissemination of suitable materials.

Through the agency of the Clearinghouse, the Research Branch is able to provide the following services.

a. Accessioning an author's project into the Research Clearinghouse booklet.
b. Lodging one copy of a report in the Clearinghouse, another in the Education Centre staff library, and in some cases, others in the State and National libraries.

c. Dissemination of a report published by an author in microfiche form.
d. Printing and dissemination of a report published by an author.
e. Typesetting, printing and dissemination of a report published by an author.

RELATION TO THE ERIC SYSTEM

The booklet *Initiatives in Further Education in South Australia* is compatible with the ERIC (Educational Resources Information Centre) system of dissemination and retrieval of information. The advantage in forming the link between the two systems is considerable, especially as the ERIC system is internationally recognised.

The ERIC descriptor system allows one to trace through a series of related, broader and narrower terms. The Research Clearinghouse material is dealt with in a similar way except that a much smaller list of words is used.

The major difference between the two clearinghouses rests on the fact that the Research Clearinghouse services include functions well beyond those provided by ERIC. The list of functions included on the inside of the back cover of this booklet, makes this fact abundantly clear.

CONTRIBUTING TO THE CLEARINGHOUSE

The decision to set up a clearinghouse for education and technological projects arose in part from the large number of requests from teachers to be kept informed of the latest developments within the Department.

Fill-in forms are available to all colleges within the Department of Further Education (and for that matter to anyone outside the Department).

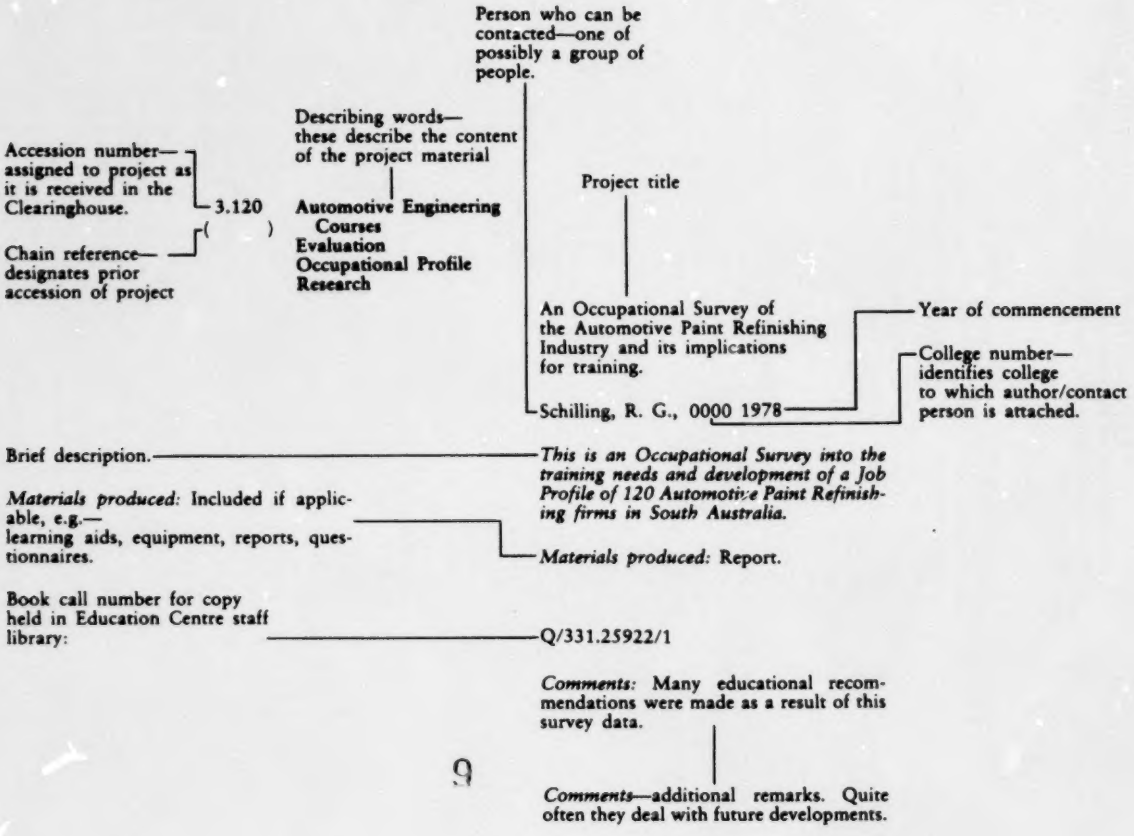
Field staff, central office staff and people from outside the Department of Further Education, are invited to include their project in the clearinghouse system by filling in the appropriate form and forwarding it to the Clearinghouse.

It is anticipated that once a bank of about one hundred projects is accumulated, collation will commence. The Clearinghouse booklet will then be disseminated to interested groups within and outside the Department. It is planned to repeat this cycle on a fairly regular basis provided that the flow of projects into the Clearinghouse is reasonably constant.

Authors of materials are also invited to forward to the Research Branch two copies of their 'report'. One copy will be lodged in the central office library and will be made available on inter-library loan. The other copy will be lodged in the Clearinghouse and will be used as a master copy for making microfiche.

Many projects change dramatically over the course of time. For instance, if a radically new idea appears, the direction of the project can change quite markedly. This will mean that information about such projects needs to be updated. At this point, the persons concerned are requested to submit further details of their project.

A chain reference system is included in *Initiatives in Further Education in South Australia* for the convenience of those who wish to locate a 'string' of references dealing with a given project.


Person who can be contacted—one of possibly a group of people.
Describing words—these describe the content of the project material
Accession number—assigned to project as it is received in the Clearinghouse.
3.120
( )
Chain reference—designates prior accession of project
Automotive Engineering
Courses
Evaluation
Occupational Profile
Research
Project title
An Occupational Survey of the Automotive Paint Refinishing Industry and its implications for training.
Year of commencement
College number—identifies college to which author/contact person is attached.
Schilling, R. G., 0000 1978
Brief description.
This is an Occupational Survey into the training needs and development of a Job Profile of 120 Automotive Paint Refinishing firms in South Australia.
Materials produced: Included if applicable, e.g.—learning aids, equipment, reports, questionnaires.
Materials produced: Report.
Book call number for copy held in Education Centre staff library:
Q/331.25922/1
Comments: Many educational recommendations were made as a result of this survey data.
Comments—additional remarks. Quite often they deal with future developments.

HOW TO USE THE PUBLICATION

Each new issue of *Initiatives in Further Education in South Australia* is fully self-contained insofar as retrieval of information from that particular issue is concerned.

Each project is indexed by college, topic, and author/contact person. These indexes can be located toward the back of each issue of *Initiatives in Further Education in South Australia*. The relevant page numbers for these indexes can be found by consulting the contents page. A list of describing words is also supplied towards the back of the booklet. It may be useful to consult this section first and then use the topic index to locate a particular project or group of projects.

For example, a describing word used in the topic index, may have twelve projects listed under it. This allows quick retrieval of all similar projects. In addition, most projects are listed under more than one describing word. This means that projects can be grouped together in various ways.

The basic idea behind the schemes described above, is to make it easy for people to search through, or 'track through' the clearinghouse material.

An actual example of a project is shown on page (6) together with a key which gives some indication of how the various sub-headings and codes fit into the overall plan.

PROJECTS

The Projects are arranged in Accession Number order.

3.1 **Bibliography**
Budgeting
Planning

Planning—Programming—Budgeting Systems
J. S. Scarvelis 0000 1976
A list of periodical articles and books.
To be used as an initial approach to a literature survey.
Materials produced: Report. Fe/P/016. 3791/1.
Comments: Originally compiled at the request of Research Branch.

3.2 **Further Education**
(1.177) **Retention Rates**
Students

Student Wastage
A. J. Brougham 5600 1976
An investigation into reasons why students withdraw from further education classes.
Materials produced: Report. Fe/Q/629.2293/1.

3.3 **External Studies**
Further Education
Post-Secondary Education

Relevance of the Open University to D.F.E.
S. Hayes 6800 1976
Analysis of the relevance of the Open University to external studies programmes particularly. P/374.4/6.

3.4 **Disadvantaged Groups**
External Studies
Learning Materials

External Courses for Blind and Partially-sighted Adults
J. Gray 6800 1976
Existing courses at this College are recorded on audio tape (with some modifications), and sent to blind students who record their exercises on a separate tape and return it to their tutor for marking and comment.
Materials produced: Audio tapes.
Comments: Proposed to print certain courses in larger type as the demand from partially-sighted students increases.

3.5 **Further Education**
Policy

A Community-Type College for South Australia
J. M. Cavanough 0000 1976
The development of the concept of a community-type college, applicable to the South Australian situation.
The feasibility of developing a community college based on an existing technical college.
Materials produced: Report. Fe/Q/378.052099423/1.

3.6 **Community College**
Demography
Technical Studies

Gilles Plains Community College, Report No. 2: Proposed School of Technical Studies
Research Branch (B. Ward and S. Hetzel) 0000 1976
An investigation into the feasibility and likely characteristics of a School of Technical Studies.
Materials produced: Report and sets of published raw data from variety of sources.
Comments: This is a pioneering attempt to develop a research methodology for the provision of integrated data and interpretation pertinent to managerial decision-making for specific geographic areas.

3.7 **Community College Policy**

Case Study: The Application of Departmental Policy to a Specific Institution
D. T. Simmonds, K. J. Parkinson, M. J. Byrne and P. J. Brown 1800 1976
An analysis of the organisation and practices of the Croydon Park College of Further Education within the policy constraints of the Department of Further Education.
Materials produced: Report.
Comments: Prepared for the O.E.C.D.

3.8 **Learning Materials Mechanical Engineering Studies**

Engineering Learning Materials
C. J. Scholar 4400 1976
Survey of material presented to basic trade engineering apprentices in Australia, a book to be produced to satisfy these requirements. Visual aids to reinforce text.

3.9 **Learning Materials Mechanical Engineering Studies**

Fluid Power Text Materials
O. Madley 4400 1976
Fluid Power text book.
Materials produced: Fluid Power text book.

3.10 **Adults Further Education**

Report on the Multi-Regional Project on Adult and Continuing Education in the United States
Research Branch (K. J. Parkinson) 0000 1976
The project was designed to provide participants with a broad introduction to the various types of basic, vocational and continuing education programmes available to adults in the U.S. and to facilitate discussion of common professional problems in the field of adult education.
Materials produced: Report. Fe/374.973/3.

3.11 **Technology Visual Communication Courses**

Technology and Techniques of Tape Preparation for Phototypesetting
T. J. Russ 1800 1975
Documentation of the technology and techniques of tape preparation for phototypesetting at the School of Graphic Arts.
Materials produced: Report. Fe/760/1
Comments: "Educational Investigation" project, completed December 1976, for Dip.T., at T.C.A.E.

3.12 **External Studies Literature Review**

Trends in External Studies
D. R. Holmes 0000 1976
A survey of literature and organisations related to external studies world wide.
Materials produced: Report.

3.13 **Course Development Human Relationships**

Sex Education
J. B. Chandler 3600 1976
A course aimed at improving the relationships between couples and to give them direction in educating their children in this area. Small groups. Informal discussion with panel of doctors and others.

3.14 Community College

Changing Issues and Problems in Educational Policies
Research Branch 0000
O.E.C.D. Project on appraisal of existing policy review methods.
Materials produced: Report. Fe/Q/378.052099423/1.

3.15 Vocational education
Wool and Textile Studies

Shearer Training in New Zealand and Australia
A. L. Brown 6800 1975
A comparative education study of shearer training in New Zealand and Australia.
Materials produced: Report P/636.0833/1.
Comments: Provides insights into a field of technical training necessary in Australia.

3.16 Curriculum
Environment
Survey

The Establishment of Environmental Studies Programmes at Port Pirie Community College of Further Education
M. J. Byrne and P. A. Carlson 0000
Includes summary of recommendations, methods of investigation, concept of a study station, establishment of a study station, developmental stages, proposed curriculum and a questionnaire survey.
Materials produced: Report Fe/Q/301.307/1.

3.17 Community
Socio-economic Status
Survey

Department of Further Education Needs Assessment—A Community Survey
M. F. Bradley 1200 1976
A project to determine the needs and socio-economic nature of the Elizabeth-Salisbury Urban Area, Adelaide, October 1976.

3.18 Disadvangtaged Groups
Food and Nutrition Courses

A Pilot Study to Determine the Impact of Further Education in a Disadvantaged Area
K. L. Madigan 4200 1975
Feeding the family: Cooking as a means to improve budget management and nutrition of low income families and hence aimed at improving family living. Group discussion. Related practical experience.
Comments: This pilot study is used as the basis for extending further education activities in disadvantaged areas.

3.19 Community
Community College Resources

Community Use of College Resources Other Than for Formal Week-Day Classes.
R. McComb, J. Matthews 4200 1975
To investigate and evaluate use of College resources for week-end schools, summer schools, unstructured courses to meet needs of those unwilling to attend formal adult classes and for societies arising out of courses conducted by the College. Small groups meeting during week-days and holiday periods.

3.20 **General studies**
Part-time
Retention Rates

Courses for Part-Time Matriculation and Commercial Studies students
R. McComb, J. Matthews 4200 1976
Investigation of individual needs and learning difficulties of part-time commercial and matriculation students. Evaluation of efficiency of present courses. Study of reasons for withdrawal from courses.

3.21 **Animal Science**
Course Development

Certificate in Equine Studies
I. J. Pickett 4200 1976
Development of a two-year certificate course to meet the needs of horse and racing industry, using facilities and resources of the D.F.E. and the community. Tuition, research and discussion. Students to be allotted to mentors for specialist guidance.
Materials produced: Syllabus and supporting documents.
Comments: Designed to cater for the specialised needs of racehorse, trotting, pony clubs and equestrian personnel.

3.22 **Animal Science**
Course Development

Practical Requirements of Veterinary Nurses
B. J. Pudney, I. J. Pickett 4200 1976
Students given a list of 45 procedures drawn up on consultation with Australian Veterinary Association. Procedures are demonstrated in class. Students must then develop experience in their own time under the supervision of a veterinarian. Veterinarian must certify the student has developed expertise in all procedures to a competent level for confident repetition.
Materials produced: Practical requirements list.
Comments: Incorporates an essential practical element into a course without extra class time. Increases liaison and understanding between employers, students and D.F.E.

3.23 **External Studies**
Instruction
Research

An Investigation into Self-Paced Programmed Learning Using Microfiche (The Simple System)
R. J. Todd 4800
An investigation into the viability of self-paced programmes presented in microfiche in comparison with the same programmes presented in booklet form, and with conventional teaching.
Self-paced study in the Resource Centre for individuals and small groups.
Materials produced: Report. Fe/371.39442/2.
Comments: Research findings to date show both the self-paced programmes on micro-fiche, and booklet, to be as effective as conventional teaching. Statistically, there is no significant difference between these methods of instruction.

3.24 **Learning Materials**
Methods
Research

An Experiment in Multi-Media Teaching
W. Raeside 2800 1975
An experiment comparing a multi-media teaching method with a conventional lecture method. Self-paced multi-media approach versus the conventional lecture approach.
Materials produced: Video tapes, programmed packages on microfiche, and lecture notes.
Comments: The major part of this study was carried out during 1975, a follow-up study has been conducted in 1976. Some preliminary results were reported in an article in S.A. Teachers Journal, 14th April 1976.

3.25 **Electronics Courses**
Learning Research

Cognitive Development Stages of Radio Apprentices
V. F. Wilson 4800 1976
An attempt to evaluate the cognitive development stage of radio apprentices using a Piagetian-type problem solving task.

3.26 **Electronics Courses**
External Studies
Learning Materials

Self-Paced Learning
G. Palmer 4800 1976
A self-paced learning course covering the first three one-term units of the Radio Servicing Course. Self-paced with teacher guidance, progress materials in packages covering each topic of the subject material.

3.27 **External Studies**

Public Broadcasting in South Australia and the Role of D.F.E.
R. Fairbrother 4800
Submission prepared for the Director-General of Further Education to Enquiry into Australian Broadcasting.
Materials produced: Departmental Report.

3.28 **Catalogue**
Learning Materials

Learning Resources Catalogue: Multi-Media Centre, 1975
R. Fairbrother 4800
Lists videotapes, audiotapes and slides available to all D.F.E. Colleges from Multi-Media Centre as at 31/7/75.

3.29 **External Studies**
Media
Planning

Educational Broadcasting—A plan for Australia
R. Fairbrother 4800
Up-date of Weeden Report, 1966. Proposes establishment of separate Educational Broadcasting Authority, with State level Educational Broadcasting Boards, and recommends better co-ordination of S.A. Educational Broadcasting and Community Broadcasting resources and needs.
Materials produced: Departmental Report.

3.30 Community College Media

Proposal for a Media College in South Australia
R. Fairbrother 4800
Recommends D.F.E. should initiate, guide and undertake establishment, development, and consequent operation of a special college incorporating performing arts, film, radio and TV media, for better use and understanding of modern communications, media and technology. A teaching and production facility.
Materials produced: Departmental Report.

3.31 Learning Materials Plumbing Courses

Learning Aid Slide Pack: Solar Heating Installations
D. Leicester, A. J. Bradbury 4800 1976
Slide pack showing the various installation positions of solar heating packs and systems. Individual and group.
Materials produced: Slide pack and synchronised sound tape.

3.32 Learning Materials Plumbing Courses

Student Instruction Sheets: Practical
R. L. Arney, L. J. Hossack, R. J. Warby 1000 1972-76
Printed instructional data sheets which Plumbing students use in the development of practical skills. Directed and self-paced learning.
Materials produced: Printed instruction/guidance sheets in book form, applicable to all grades in the basic apprentice trade course in Plumbing.
Comments: All data sheets have been metricated.

3.33 Learning Materials Plumbing Courses

The Piston-Type Flushometer Valve
A. W. Turner 1000 1976
The development of a learning activity package on the piston type flushometer valve as a new approach to the training of apprentices and adults.
Materials produced: Bound project (90 pp.) and slides.
Comments: "Educational Investigation" project, completed November 1976, for Dip.T. at T.C.A.E.

3.34 Course Development Plumbing Courses

Curriculum Development: Registration of Gas Fitters
L. J. Hossack and R. L. Arney 1000 1976
An industrial-educational survey of local and interstate current needs and standards required for the reciprocity of Gas Fitting Registration. Follow-up lectures, seminars and practical assignments.
Materials produced: An industrial survey from which a syllabus, programmes and learning aids have been produced.

3.35 **Course Development**
Plumbing Courses

A Comparative Analysis of Plumbing, Gas Fitting and Draining Basic Trade Certificate Courses in Australia

J. S. Broderick, L. J. Hossack, G. R. Kiely 1000 1975

An educational survey and analysis of all Plumbing, Gas Fitting and Draining Courses in Australia at the Apprentice Basic Trade Certificate Course level, leading to a possible national reciprocity, interchangeability and accreditation. Consultation via conference, seminar and postal communications.

Materials produced: An extensive comparative analysis resulting in a detailed report.

Comments: The Report was presented at the 1976 Biennial Conference of the Directors of Technical and Further Education of the Australian States. A general distribution to all interested persons to be carried out in November 1976.

3.36 **Course Development**
Curriculum Process
Health
Occupational Profile

Curriculum Research and Planning: Associate Diploma in Health Surveying

J. S. Broderick 1000 1975

A professional-educational survey of current and projected needs and standards in Health Surveying.

Materials produced: A field survey of the industry leading to a job profile. The production of a full submission to the Director-General.

3.37 **Learning Materials**
Plumbing Courses

Learning Aid: Display—Panel Showing Methods of Controlling Water Pressure in Pipelines

L. J. Hossack 1000 1975

Application of various control valves with measurement by gauges. Testing for pressure drop. Measured by dynamic strain bridge. Student assignments, class demonstrations and self-directed learning.

Materials produced: Planning completed for an extension of the project. Costing exercise carried out.

3.38 **Learning Materials**
Plumbing Courses

Learning Aid: Magnetised Component Layout Display Board

D. E. Fewster 1000 1975

Metal panel upon which magnetised silhouettes of joint components may be quickly demonstrated. Demonstrations in workshops and classrooms.

Materials produced: Panel and sketches of components.

3.39 **Equipment**
Media

Mobile Video Camera Stand

A. J. Bradbury 1000 1975

A stabilised mobile video camera stand for use in Library Resource Centre Production programme in video application. Training L.R.C. and other teaching staff in the techniques of video programmes.

Materials produced: Unit completed and in use.

3.40 **Learning Materials**
Plumbing Courses

Sheetmetal Working Practical Programme
C. R. Harvey 1000 1976
Transparency slide pack with written commentary (Procedural steps in the making of a marking guide). Individual self-paced and/or group instruction.
Materials produced: Transparencies.
Comments: For general use in Sheetmetal Working.
Basic Trade Course (Apprentice).

3.41 **Learning Materials**
Plumbing Courses

Learning Aid: Air Inlets and Outlets
R. G. Way 1000 1976
Transparencies slide pack with commentary illustrating ventilation systems. Individual and/or group learning.
Materials produced: Transparencies.
Comments: Apprentice and post-trade training programmes.

3.42 **Learning Materials**
Plumbing Courses

Learning Aid: Air-Conditioning Layouts
R. G. Way and G. Gregory 1000 1976
Transparencies slide pack with written commentary covering various aspects of air-conditioning systems from plant room to outlet registers. Individual and/or group learning.
Materials produced: Sketches and plan construction.
Comments: Apprentice and post-trade vocational training programmes.

3.43 **Learning Materials**
Plumbing Courses

Learning Aid: Sawdust Exhaust Unit
B. R. Bond 1000 1976
Scale model of sawdust exhaust system featuring see-through sections and flow testing facilities. Individual and/or group instruction.
Materials produced: Sketches and working drawings.
Comments: Apprentice, Post-Trade and Adult vocational training programmes.

3.44 **Learning Materials**
Plumbing Courses

Learning Aid: Evaporative Cooler Unit
R. G. Paton 1000 1976
A working model of a typical evaporative cooling system featuring inspection windows and testing points for air flow. Individual and/or group learning.
Materials produced: Sketches—drawing of components.
Comments: Apprentice, Post-Trade and vocational adult training programmes.

3.45 **Learning Materials**
Plumbing Courses

Learning Aid: Fire Safety
A. J. Lelliott 1000 1976
Video taped programme showing the correct use of fire extinguishers supplied to schools. Individual and/or group learning.
Comments: For staff and student instruction in fire safety.

3.46 **Learning Materials**
Plumbing Courses

Learning Aid: Air-Conditioning Duct Work
B. R. Bond 1000 1976
16 mm film showing various duct work installations. Individual and/or group learning.
Comments: Apprentice, Post-Trade and vocational adult training programmes.

3.47 **Learning Materials**
Plumbing Courses

Learning Aid: Exhaust and Blower Systems
N. A. Fyffe 1000 1976
16 mm film showing a number of exhaust and blower systems installations. Individual and/or group learning.
Comments: Apprentice, Post-Trade and adult vocational training programmes.

3.48 **Learning Materials**
Plumbing Courses

Learning Aid: Sheetmetal Working Joints
N. A. Fyffe 1000 1976
16 mm film featuring the planned stages in the construction of Sheetmetal Working Joints. Individual and/or group learning.
Materials produced: Sketches.
Comments: Apprentice, Post-Trade and vocational adult training programmes

3.49 **Learning Materials**
Plumbing Courses

Visual Learning Aids: Sanitary Plumbing and Draining
L. J. Hossack, R. L. Arney 1000 1976
Development of overhead projector transparencies to illustrate the requirements of the Sanitary Plumbing and Drainage Directions under the Sewerage Act. Group learning, seminar discussion.
Materials produced: Transparencies.

3.50 **Industry**
Job Profile
Plumbing Courses
Questionnaire

Curriculum Research: Researching Industrial Training Needs
J. S. Broderick, L. J. Hossack, B. R. Bond 1000 1975
An industrial survey of training needs in the Air Conditioning/Mechanical Services industry. Interviewing techniques—questionnaire.
Materials produced: An industrial job profile or training needs, current and projected.
Comments: Development continuing.

3.51 **Course Development**
Plumbing Courses

Curriculum Research: Vocational Training Needs
L. J. Hossack, B. R. Bond, N. A. Fyffe 1000 1975-76
An ongoing survey of industrial vocational training needs leading to the design of refresher courses, new courses and revision of existing courses. Individual group—self-paced.
Materials produced: Industrial surveys, syllabuses, programmes, lecture notes and learning aids for short and longer-term courses.

3.52 **Assessment**
Supervision
Subjects

Use of Essay Questions for Assessment
W. W. Carter 6800 1976
Assessing subjective learning goals for industrial supervision requirements.
Materials produced: Report—complete.

3.53 **Adults**
Bridging Courses
Ethnic Groups
Vocational Education

Bridging Courses for Adult Migrant Tradesmen
B. Nussey 6000 1976
To investigate the need to establish bridging courses for adult migrant tradesmen.
Materials produced: Investigation in progress.

3.54 **External Studies**
Learning Materials
Resource Centres

Introduction to the Preparation and Use of Audio-Visual Aids
B. Nussey 6000 1976
The development of an individual progression library kit designed to introduce untrained part-time instructors to the care and use of audio-visual materials. Individual self-paced learning using a resource tutor.
Materials produced: Interim Report.

3.55 **Apprentices**
(2.64) **Mechanical Engineering Studies**
Performance
Research

An Investigation into the Learning Difficulties of Fitting and Turning Apprentices
J. Raftery 4200 1975
A study of 126 first-year fitting and turning apprentices to investigate the characteristics of students with learning difficulties, to evaluate a method of detecting these students and to apply this knowledge to establish an appropriate method of intervention.
Materials produced: Report.

3.56 **External Studies**
Research

Report on Home Study Group Projects
M. J. Hand 1400
To initiate and evaluate Home Study Groups as a pilot study aimed at taking education into the community.
Materials produced: Report. Fe/Q/374.2/1.
Comments: A T.A.F.E.C. Research Grant Report.

3.57 **Hairdressing Studies**
Industry
Survey

Further Education Course in Science for Hairdressers
R. A. Sinclair 1000 1974
Questionnaire survey among hairdressers in salons and teachers of hairdressing to discover their opinions on various aspects of science in hairdressing, and development of a course, Science in Hairdressing II.
Materials produced: Bound project (187 pp.).
Comments: "Educational Investigation" project completed December 1976, for Dip.T. at T.C.A.E.

3.58 **External Studies**
Methods

Drop-in Centres
M. F. H. Sachsse, M. J. Mulvihill 3800 1976
Encouragement given to students from craft classes to form guilds. The groups are fed by students from F.E. classes. They meet at hours to suit themselves. The groups are designed to foster student initiative and to move towards total independence.
Comments: Self-help. Self-directed learning. Informal learning.

3.59 **General Studies**
Research
Vocational Education

Theory and Practice of Liberal Studies in Technical Education
M. F. H. Sachsse 3800 1975
A study of the relationship between vocational and non-vocational education and training, looking in particular at the question of how far a technical training institution should go in encouraging its students to widen their cultural horizons, and to develop a sense of social responsibility.
Materials produced: 30 000 word dissertation in two parts submitted as part fulfilment towards the award of the degree of M.Ed. for the University of Manchester.

3.60 **Visual Communication**
Courses
Work Experience

Working Experience Before Employment
M. Youds, S. Connelly 2000
To provide 12 months working experience for Commercial Art students prior to employment. Contact and investigation within the advertising field.
Comments: Most agencies support the theory and have implied their support in practical terms.

3.61 **Computers**
Mechanical
Engineering Studies

Easy Access to Cutting Speed Information
V. Zabo 2000
Written up as a computer programme. Programme is completed and functioning successfully in assisting students to check answers.

3.62 **Computers**
Mechanical
Engineering Studies

Easy Access to Heat Treatment Information
M. Thomas 2000 1975
A developmental exercise involving computer programming.

3.63 **Computers**
(2.80) **Learning Materials**
Mechanical
Engineering Studies

Computer Assisted Learning Programmes for Electrical Students
N. Walwyn 2000 1975
The use of C.A.L. techniques and BASIC programmes, integrated with normal teaching. To assist students to have a faster check with laboratory experiment results and calculations.
Materials produced: Programmes for computer. Fe/P/621.307/2.
Comments: Additional programmes are being written and existing ones are being updated.

3.64 **Computers**
(2.79) **Mechanical Engineering Studies**

Computer Assisted Learning for Mechanical Engineering Students
J. L. Knowles 2000 1975
A programme development exercise.
Comments: The programme is now functioning well.

3.65 **Computers**
(2.84) **Equipment**
Mechanical Engineering Studies

Use of a Computer Numerical Contro! Milling Machine
J. L. Knowles 2000 1975
Examination of a C.N.C. Milling Machine in press tool manufacturing to produce blanking dies for pressing elliptical shaped blanks of variable dimensions.
Materials produced: Bound project (39 pp.).
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

3.66 **Bridging Courses**
Evaluation

Effectiveness of Bridging Courses in Preparation of Adult Matriculation Students
M. Nimon 2000 1975
Examination of the effectiveness of bridging courses for pre-matriculation students.

3.67 **Computers**
Equipment
Mechanical Engineering Studies

Computer on Line to N.C. Machine
J. Ralston 2000
The programming of the computer for linkage, and operation of, the N.C. machine.
Comments: Project completed and working satisfactory.

3.68 **Instruction**
(2.85) **Methods**
Technical Studies

Greater Use of Integrated Training
L. Lawton 2000
To provide greater use of integration for technical training.
*Materials produced:*Fe/Q/621.307/1.
Comments: Proving very successful with all departments developing new curriculum outlines and methods.

3.69 **Building Trade Studies**
Computers

Steel Roof Tiles Design With Computer
K. Tonkin 2000
A programme has been designed to give strain and stress in truss members using computer programmes in BASIC.
Comments: Programme completed and used as a check for design calculations by Post-Trade Certificate students.

3.70 **Automotive**
(2.78) **Engineering Courses**
Computers
Learning Materials

Analysis of Exhaust Gases
R. Miels 2000 1975
Gas analyser is used to investigate the causes of excessive emissions for petrol and gas fuels, with the view of possible assistance of the computer.

3.71 **Computers**
(2.81) **Electrical Courses**
Learning Materials

Use of Graphs Display Unit in Teaching A.C. Technology
L. Lawton 2000 1975
The graphic display unit is programmed from the computer to draw curves and phasons. Information is fed from practical circuits via transducers and teletype in BASIC.
Comments: Control and Display now on line to computer.

3.72 **Building Trade Studies**
(2.77) **Computers**

Timber Roof Design with the Computer
E. G. Magor 2000 1975
Development of programme to determine lengths and angles of roof components using BASIC. It will assist students in calculating roof members.
Comments: A workable programme has been completed together with a conversion table (degrees to roofing square ratio).

3.73 **General Studies**
Post-Secondary Education
Research

Aims and Achievements of Further Education
N. Rosenberg 2000
Comparing achievements and aims for the D.F.E. for the University of Adelaide, Department of Adult Education and the W.E.A. of S.A. in regard to their enrichment courses.
Materials produced: Questionnaire.

3.74 **Automotive Engineering Courses**
External Studies
Learning Materials

Programmed Learning
J. P. Amoroso 5400 1976
Designed for groups pursuing a course in wheel alignment; more specifically for apprentice Motor Mechanics, in particular those individuals who are regarded as "slow learners". Principally self-directed learning by active discovery. Can also be used as tutorial manual to supplement and reinforce learning.
Materials produced: Books to conduct a pilot survey of two groups of Motor Mechanic students. Fe/629.2092/1.

3.75 **Mechanical Engineering Studies**
Occupational Survey

A Job Profile in Fitting and Turning
W. L. Coombe 4200 1975
Survey of companies to ascertain a realistic appraisal of the job skill requirements of industry in the fitting and turning trade.
*Materials produced:*Bound project (69 pp.). Fe/Q/621.75/2.
Comments: "Educational Investigation" project, completed October 1976 for Dip.T. and T.C.A.E.

3.76 **Automotive Engineering Courses**
Literature Review

Battery Electric Powered Road Vehicles
R. L. Booth 1800 1975
A literature survey into the development of battery electric road vehicles and their operation.
Materials produced: Bound project (132 pp.). Q/629.2293/1
Comments: "Educational Investigation" project, completed November 1976 for Dip.T. at T.C.A.E.

3.77 **Mechanical Engineering Studies**

Report of Proceedings of the A.G.M. of Boilermakers Instructors Association of Victoria
D. Currie 4200 1976
A report on the annual general meeting and 1975 Seminar of the Boilermaking Instructors Association of Victoria.
Materials produced: Report.

3.78 **Apprentices**
Courses
Further Education
Technical Studies

Information Evening: Description of Courses
T. Fechner 4200 1976
Heads of Schools and Principal presented papers on activities of D.F.E., requirements of Certificate courses and apprenticeship requirements.
Materials produced: Report.

3.79 **Equipment**
Learning Materials
Mechanical Engineering Studies

Mobile Welding Unit
G. Weston 4200 1976
Mobile welding unit for use in country areas.
Provides non-specialist facilities.
Materials produced: Report.

3.80 **Apprentices**
(2.103) **Survey**
Vocational Education

The Education and Training Needs of Fitting and Turning Apprentices
R. Hanson 4200 1976
The education and training needs of fitting and turning apprentices; an in-school teacher survey.
Materials produced: Report Fe/P/621.7507/1.

3.81 **Mechanical Engineering Studies**
Supervision Subjects

Seminar on Foundry Supervision
L. Bertossa 4200 1976
Four-day seminar on Foundry Supervision conducted by college lecturers and visiting speakers.

3.82 **Safety**

The Use of Ergonomics as an Accident Prevention Technique
L. Hill 4200 1976
Information to be collated from research projects being carried out in institutions in Australia and overseas countries. Material will be made available to students through lectures and case studies.
Materials produced: Some precis notes and reference files.

3.83 **Business Studies**
(1.151) **Resources**

Business Studies Laboratory
T. Fechner 4200 1974
Provision of facilities and equipment to ensure that the teaching of business subjects is more closely allied to modern business practice.
Use of geographical groups within college rather than classroom to promote learning situation.
Materials produced: Report.

3.84 **Business Studies**
External Studies
Learning Materials

A Self-Learning Module for Project Network Analysis of the Industrial Studies Certificate
G. L. Hill 4200 1974
A module kit on the technique of Critical Path Analysis. Self-directed for individuals or groups suitable for presenting as a short (12) hour course for groups.
Materials produced: Precis notes, exercises, overhead transparencies, linear programme.

3.85 **Business Studies**
Course Development
Safety

Human Work Environment
G. L. Hill 4200 1976
Compiling information on courses and subjects taught in educational institutions on subjects associated with human work environment.
Materials produced: Booklet on courses on Ergonomics courses available at University of Birmingham, University of Aston, Loughborough University of Technology.

3.86 **Course Development**
Fashion Courses

General Dressmaking—Courses for Beginners, Advanced, Children's
S. Sachs, P. McComb 4200 1976
(1) General Dressmaking as a 1 term (only) course
(2) General Dressmaking—Beginners—1 semester (19 weeks)
(3) General Dressmaking—Advanced—1 semester
(4) General Dressmaking—Children's wear—1 semester.
Demonstration and practical experience.
Materials produced: Programme for the Beginners, Advanced and Children's Wear courses.
Comments: (1) The 1 term course is structured giving students free choice of garments covered. (2) Beginners—the basic skills of dressmaking applied to simple garments and easily handled fabrics. (3) Advanced—an extension of skills on more complicated garments using a wide variety of fabrics. (4) Children's wear—quick methods for economic decoration for children's garments.

3.87 **External Studies**
Literature Review

A Survey of Literature of Organisations in the Field of External Studies
D. Holmes 0000 1976
The report provides a broad survey of issues and trends in external studies as indicated in current literature and organisations. It also indicates the need for institutional adaptation to facilitate increased access.
Materials produced: Report. Fe/SA/378.1009942/4.

3.88 **Evaluation**
External Studies
General Studies
Learning Materials

Evaluation of Learning Materials: A report on the evaluation on some aspects of the External Studies Matriculation Geography Course.
D. H. Kuhl 0000 1977
A report on the evaluation of the structure, presentation and content of the external studies Matriculation Geography course materials.
Materials produced: Report. Fe/Q/357.91/1.

3.89 **External Studies**
Literature Review

Distance Education—A Bibliography
C. Doughty 6800 1976
A literature review of articles on distance education.
Materials produced: Report. Fe/P/016.3744/1.

3.90 **Adults**
Disadvantaged Groups

"The Educational Needs of Disadvantaged Adults in the Goodwood Area" (A case study).
D Holmes, M. Byrne 0000 1976
1. A survey of non-D.F.E. programmes. 2. Personal interviews with selected people. 3. An analysis of statistical data from existing material. 4. A detailed literature survey of current thinking about education for the disadvantaged.
Materials produced: Report. SA/374.012/3.

3.91 **Access**
Further Education

Outreach: Awareness of Further Education and Access to it
D. M. Finnegan 0000
Survey in metropolitan Adelaide to assess the level of awareness and access to further education.
Materials produced: Report.
Comments: The report contains an extensive analysis of the results in terms of the Department's philosophy and practice. Guidelines for future policy are provided, along with suggestions for future research. The methodology is set out in detail to assist field officers lacking research experience.

3.92 **Bibliography**
Further Education
Research

Educational Investigation Abstracts, 1973-1976
R. McL. Harris 50 000 T.C.A.E.
A file of project titles and summaries completed in the period 1973-1976. There are 32 projects completed from 1973-76 and a further 54 investigations in progress during 1977.
Materials produced: Report. Fe/P/370.78099423/1.

3.93 **Demography**
Planning
Resources

Proposed Redevelopment of Moseley Square, Glenelg. Proposals for D.F.E. Involvement.
S. Hetzel 0000 1976
A study to examine the desirability of providing a further education facility as part of the proposed redevelopment of Moseley Square, Glenelg, including estimations of the type and size of facility which would be appropriate there.
Materials produced: Report.

3.94 **Apprentices**
Automotive Engineering Courses
Technicians

Apprentice and Post-Trade Training in the Automotive Section of South East Community College
P. Kinnear 5400 1976
Looking into the history and development of apprentice training and future development in the automotive industry.
Materials produced: Report.

3.95 **Occupational Profile**
Skill Profile
Survey

Skill Analysis and Job Profile for Press Tool and Die Making
O. Szentgyorgyi 4200 1975
Survey among firms to establish the need for a more efficient and satisfying teaching method and to ascertain the essential skill requirements.
Materials produced: Bound project (66 pp.). Fe/Q/671.2507/1.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

3.96 **Automotive Engineering Courses**
In-service Education

Automotive Brake Trade: Specialised In-Service Training Course in Victoria
H. K. Woods, R. Reuther 1800 1976
A report on a Melbourne visit to examine methods of in-service training in the automotive brake trade.
(1) Specialised inservice training courses. (2) Specialist retail repair workshops in industry. (3) Education and training institutions, September 1976.
Materials produced: Report. Fe/Q/629.207/1.

3.97 **Access**
Colleges of Further Education

Open Access: A Report on Interviews with D.F.E. Personnel.
B. Abrahams 7000 1976.
A report on a series of interviews with Department of Further Education College Principals and staff about open access policy.
Materials produced: Report. Fe/Q/374.99423/1.

3.98 (2.115) **Colleges of Further Education**
Community

A College of Further Education in its Local Community
R. J. Sumner, L. Kerkham 4200
A sociological study of Panorama Community College of Further Education.
Materials produced: Report. Fe/Q/378.0520994/1.

3.99 **Secondary Education**
Survey
Vocational Education

A Pilot Study of Some School Leavers
F. J. Ferguson 4600 1976
A questionnaire survey of 91 students leaving Port Pirie High School in 1975 to discover the success rate of occupational choices and the influence of secondary schooling on that success.
Materials produced: Bound project (83 pp.). Fe/Q/371.2912/2.
Comments: "Educational Investigation" project, completed December 1976, For Dip.T. at T.C.A.E.

3.100 **Automotive Engineering Courses**
Technology

Powder Coating—Advances in Paint Technology
P. B. Stevens 1800 1976
A broad review of the development of powder coatings and their application, with the intention of implementing such courses in trade course certificate study. A comprehensive bibliography is included for reference to further research.
Materials produced: Report.
Comments: An "Educational Investigation" report in part fulfilment of the Dip.T.(Tech.) for D.F.E. Lecturers.

3.101 Electrical Courses
Technology

The Quality of Lighting Design in S.A.
G. R. N. Smith 4800 1975
Investigation into current design procedures used for artificially lit interiors.
Materials produced: Report.

3.102 Part-time
Study Release
Teachers

An Investigation into the Effects of Part-Time Study on Lecturers in D.F.E. within the Metropolitan Area of S.A.
A. C. Wharram 4800 1975
Part-time study and its effects on lecturers in the following areas, teaching or skill transfer areas and lecturers own learning situation. Internal and external social change in regard to the educational system.
Materials produced: Report.

3.103 Automotive
Engineering Courses
Technology

Anti-Friction Bearings
C. R. Tucker 4000 1975
Technical information on the servicing of anti-friction bearings, as a guide for teachers of apprentices in the basic automotive trade.
Materials produced: Report.
Comments: "Educational Investigation" project, completed June 1976, for Dip.T. at T.C.A.E.

3.104 Plumbing Courses
Technology

An Investigation into the Effects of Free Ammonia and Urine on Fabricated Copper Tube Junctions and Brassware
D. E. Fewster 1000 1972
A study to determine the deterioration of copper and brass in contact with free ammonia and urine as occurring in urinal waste outlet pipes.
Materials produced: Report.
Comments: The results within the report are determined by the colour of the stain on selected paper.

3.105 Building Trade
Studies
Learning Materials

Neglected Areas of Architectural Drafting
B. R. Leon 3200 1975
Architectural lettering using pen and ink; elementary perspective development for architectural drawing; and techniques for drawing trees using pencil, and pen and ink.
Materials produced: Report.
Comments: "Educational Investigation" project, completed October 1976, for Dip.T. at T.C.A.E.

3.106 Learning Materials
(2.130) Mechanical
Engineering Studies
Vocational Education

The Training of Metal Fabrication Craftsmen
R. W. Kemp 4200 1975
Production of a training manual relating to gas and metal arc welding, including a bibliography and discussion of available material on the training of metal industry craftsmen.
Materials produced: Report.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

3.107 Apprentices
Mechanical
Engineering Studies
Motivation
Survey

Motivational Differences Between City and Country Apprentices in Metal Fabrication and Welding
A. M. Joyce 4200 1975
Questionnaire survey of 228 city and country apprentices to examine motivational differences.
Materials produced: Report.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

3.108 Automotive
Engineering Studies
Market Research
Survey

Mechanical Handling in the South-East
J. A. Jenner 2200
A survey to establish the need for, and to determine the extent of, a course in mechanical handling in the South-East.
Materials produced: Report.

3.109 Market Research
Mechanical
Engineering Studies
Survey

Mechanical Handling in the South-East
J. L. Hale 1800 1974
A survey to establish the need for, and to determine the extent of, a course in mechanical handling in the South-East.
Materials produced: Report.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

3.110 Apprentices
Mechanical
Engineering Studies
Occupational Profile

The Training Needs of Boilermaking Apprentices in the Metropolitan Area of Adelaide
D. Grant 4200 1975
Investigation and description of the training needs of boilermaking apprentices both in industry and technical colleges.
Materials produced: Report.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

3.111 Aviation
Vocational Education

Aviation Training
H. Bache 2000 1976
A study of the training requirements and certification of aircraft maintenance engineers and aircraft apprentices in S.A.
Materials produced: Report.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

3.112 Fashion Courses
Technology

Size Coding Scheme for Women's Clothing
K. M. Berry 2000 1975
A survey of 85 women in order to study measurements used in the Size Coding Scheme for women's clothing in Australia.
Materials produced: Report.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

.113 **Apprentices**
Mechanical Engineering Studies
Vocational Education

Boilermaking Apprentice Training at Whyalla C.F.E.
T. J. Bettison 6000 1975
An investigation into the current boilermaking apprentice training scheme at Whyalla and recommendation for the development of a future modular-type course.
Materials produced: Report.
Comments: "Educational Investigation" project, completed September 1976, for Dip.T. at T.C.A.E.

.114 **Apprentices**
Electrical Studies
Mechanical Engineering Studies
Vocational Education

Refrigeration Trainer Units in Apprenticeship Training
A. G. Bristow 4800 1975
Study of seven viable projects which could be incorporated into the existing refrigeration trainer unit used in the training of apprentices.
Materials produced: Report.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

.115 **Counselling**
Vocational Education

Vocational Guidance and Counselling in Port Augusta
B. H. Frost 4400 1976
Examination of vocational guidance procedures used at Port Augusta College of Further Education particularly as it relates to counselling.
Materials produced: Report.

.116 **Further Education**
Management

The management of Further Education in South Australia
A. F. Sando 0000 1973
This study examines the major factors likely to be involved in the future decision-making process within the Department. Emphasis is given to the important roles of resources, research, evaluation and Counselling. The study also deals with ways of providing more flexibility for decision-making by students within the system.

.117 **Vocational Education**
Wine Industry

Training of Personnel in the Wine Industry
C. W. L. Davis 2000 1976
Interview survey of personnel in wine companies in the Barossa Valley to obtain opinions on short courses at the foreman/supervision level, and the recommendation of such a course.
Materials produced: Report.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

.118 **Food and Nutrition**
Courses
Survey

Meat Hygiene
J. J. Dillon 4800 1976
Survey of meat hygiene standards in S.A. and of procedures involved to provide a basis for a meat hygiene course at the School of Food and Catering.
Materials produced: Report.
Comments: "Educational Investigation" project, completed January 1977, for Diploma in Teaching at T.C.A.E.

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3.119 Automotive Engineering Studies
Learning Materials

The Alternator Demonstration Aid
Q. Durward 1800 1975
Design, function and application of a teaching aid to facilitate teaching and learning.
Materials produced: Report.
Comments: "Educational Investigation" project, completed December 1976, for Dip.T. at T.C.A.E.

3.120 Automotive Engineering Courses
Evaluation
Occupational Profile
Research

An Occupational Survey of the Automotive Paint Refinishing Industry and its implications for training
R. G. Schilling, 0000 1978
A joint study by College lecturers and Research Branch . This is an occupational survey into the training needs and the development of a job profile of 120 Automotive paint refinishing firms in South Australia. The project team surveyed four levels of personnel within the industry, namely: tradesmen, employers, paint and vehicle manufacturers and suppliers, and the Consumer Affairs Organisation (R.A.A.) Many education recommendations have been made as a result of this survey data.
Q/331.25922/1.

3.121 Automotive Engineering Courses
Curriculum
Evaluation
Occupational Profile
Research

Curriculum Research and Evaluation: Conference Papers on Curriculum Evaluation and an Occupational Survey Approach
D. H. Kuhl and R. G. Schilling, 0000 1977
Two papers were presented at the 1977 A.A.R.E. Conference. One of these papers outlines a rationale for Curriculum evaluation particularly as it applies to technical and further education. The second paper discusses an occupational survey of the Motor Painting and Lining Industry in a case study format.
Q/375.006/1.

TOPIC INDEX

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3.91 Outreach: Awareness of Further Education and access to it.

3.97 Open Access: A report on interviews with D.F.E. Personnel.

ADULTS

3.10 Report on the Multi-Regional Project on Adult and Continuing Education in the United States.

3.53 Bridging Courses for Adult Migrant Tradesmen.

3.90 "The Educational Needs of Disadvantaged Adults in the Goodwood Area". (A case study).

ANIMAL SCIENCE COURSES

3.21 Certificate in Equine Studies.

3.22 Practical requirements of Veterinary Nurses.

APPRENTICES

3.55 An Investigation into the Learning Difficulties of Fitting and Turning Apprentices.

3.78 Information Evening: Description of Courses.

3.80 The Education and Training Needs of Fitting and Turning Apprentices.

3.94 Apprentice and Post-Trade Training in the Automotive Section of South-East Community College.

3.107 Motivational Differences Between City and Country Apprentices in Metal Fabrication and Welding.

3.110 The Training Needs of Boilermaking Apprentices in the Metropolitan Area of Adelaide.

3.113 Boilermaking Apprentice Training at Whyalla C.F.E.

3.114 Refrigeration Trainer Units in Apprenticeship Training.

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3.52 Use of Essay Questions for Assessment

AUTOMOTIVE ENGINEERING COURSES

3.70 Analysis of Exhaust Gases.

3.74 Programmed Learning.

3.76 Battery Electric Powered Road Vehicles.

3.94 Apprentice and Post-Trade Training in the Automotive Section of South-East Community College.

3.96 Automotive Brake Trade: Specialised In-Service Training Course in Victoria.

3.100 Powder Coating—Advances in Paint Technology.

3.103 Anti-friction Bearings.

3.108 Mechanical Handling in the South-East.

3.119 The Alternator Demonstration Aid.

3.120 An Occupational Survey of the Automotive Paint Refinishing Industry and its implications for Training.

3.121 Curriculum Research and Evaluation: Conference Papers on Curriculum Evaluation and an Occupational Survey Approach.

AVIATION COURSES

3.111 Aviation Training.

BIBLIOGRAPHY

3.1 Planning-Programming-Budgeting Systems.

3.92 Educational Investigation Abstracts, 1973-1976.

BRIDGING COURSES

3.53 Bridging Courses for Adult Migrant Tradesmen.

3.66 Effectiveness of Bridging Courses in Preparation of Adult Matriculation Students.

BUDGETING

3.1 Planning-Programming-Budgeting Systems.

BUILDING TRADE STUDIES

3.69 Steel Roof Tiles Design with Computer.

3.72 Timber Roof Design with the Computer.

3.105 Neglected Areas of Architectural Drafting.

BUSINESS STUDIES

3.83 Business Studies Laboratory.

3.84 A self-learning Module for Project Network Analysis of the Industrial Studies Certificate.

3.85 Human Work Environment.

CATALOGUE

3.28 Learning Resources Catalogue: Multi-Media Centre, 1975.

COLLEGES OF FURTHER EDUCATION

3.97 Open Access: A Report on Interviews with D.F.E. Personnel.

3.98 A College of Further Education in its Local Community.

COMMUNITY
3.17 *Department of Further Education Needs Assessment—A Community Survey.*
3.19 *Community Use of College Resources Other Than for Formal Week-Day Classes.*
3.98 *A College of Further Education in its Local Community.*

COMMUNITY COLLEGE
3.6 *Gilles Plains Community College, Report No. 2: Proposed School of Technical Studies.*
3.7 *Case Study: The Application of Departmental Policy to a Specific Institution.*
3.14 *Changing Issues and Problems in Educational Policies.*
3.19 *Community Use of College Resources Other Than for Formal Week-Day Classes.*
3.30 *Proposal for a Media College in South Australia.*

COMPUTERS
3.61 *Easy Access to Cutting Speed Information.*
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3.69 *Steel Roof Tiles Design with Computer.*
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31 Flinders Street, Adelaide 5000
Tel: 227 4204

Training and Development Centre,
refer 7000

Multi-Media Centre,
refer 2800

1000 Adelaide College of Further Education,
'Centrepoint',
30 Pulteney Street, Adelaide 5000.
Tel: 223 7677

1001S School of Music,
279 Flinders Street, Adelaide 5000.
Tel: 223 4138

1002S School of Business Studies,
1st Floor,
'Centrepoint',
30 Pulteney Street, Adelaide 5000.
Tel: 223 7677

1003S School of Hairdressing,
'Centrepoint',
30 Pulteney Street, Adelaide 5000.
Tel: 223 5104.

1004S School of Plumbing,
253 Grenfell Street, Adelaide 5000.
Tel: 223 3557

1005S School of Dental Technology,
Frome Road, Adelaide 5000.
Tel: 223 6930

1200 Adelaide Hills Community College,
P.O. Box 78, Mount Barker 5251.
Tel: 388 1888.

1400 Brighton College of Further Education,
442 Brighton Road, Brighton 5048.
Tel: 298 3111

1600 Clare College of Further Education,
137 Main North Road, Clare 5453.
Tel: STD 088 42 2522

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1800 Croydon Park College of Further Education,
Goodall Avenue, Croydon Park 5008.
Tel: 45 9044

2000 Elizabeth Community College,
Woodford Road, Elizabeth 5112.
Tel: 255 2044

2200 Eyre Peninsula Community College,
2 London Street, Port Lincoln 5606.
Tel: STD 086 82 2477

2400 Gawler College of Further Education,
Finniss Street, Gawler 5118.
Tel: STD 085 22 1855

Gilles Plains Community College refer 5600

2600 Kensington Park Community College,
P.O. Box 86, Kensington Park 5608.
Tel: 332 6600

Language & Migrant Education Centre,
240 Currie Street, Adelaide 5000.
Tel: 51 3045, refer 6600

2800 Multi-Media Centre,
C/o Regency Park Community College annexe,
1 Humphries Terrace, Kilkenny 5009.
Tel: 45 9055

3000 Port Adelaide Community College of Further Education,
90 Hart Street, Semaphore South 5019.
Tel: 49 5144

3200 Marleston College of Further Education,
254 West Beach Road, Marleston 5033.
Tel: 352 4177

3400 Murray Bridge Community College of Further Education,
P.O. Box 421, Murray Bridge 5253.
Tel: STD 085 32 1913

3600 Naracoorte College of Further Education,
19 Gordon Street, Naracoorte 5271
Tel: STD 087 62 2199

3800 Northern College of Further Education,
P.O. Box 146, Peterborough 5422
Tel: 011 Pet. 218

4000 O'Halloran Hill College of Further Education,
P.O. Box 41, Brighton 5048
Tel: 298 2488

Parks Community Education Centre, refer 7200

4200 Panorama Community College of Further Education,
P.O. Box 115, Daw Park 5041
Tel: 276 3611

Port Adelaide Community College of Further Education,
90 Hart Street, Semaphore South 5019
Tel: 49 5144, refer 3000

4400 Port Augusta College of Further Education,
P.O. Box 139, Port Augusta 5700
Tel: STD 086 42 2288

4600 Port Pirie Community College of Further Education,
P.O. Box 144, Port Pirie 5540
Tel: STD 086 32 1633

4800 Regency Park Community College,
Cnr. Regency and Days Roads, Regency Park 5010
Tel: 46 0311

5000 Riverland Community College,
P.O. Box 753, Renmark 5341
Tel: STD 085 86 6944

S.A. College of External Studies,
208 Currie Street, Adelaide 5000
Tel: 51 5742, refer 6800

5200 South Coast College of Further Education,
'Ocean Court',
Ocean Street, Victor Harbor 5211
Tel: 085 52 1663

5400 South-East Community College,
P.O. Box 225, Mount Gambier 5290
Tel: STD 087 25 5011

5600 Gilles Plains Community College,
Blacks Road, Gilles Plains 5086
Tel: 261 3344

5800 Tea Tree Gully College of Further Education,
1016 Main North East Road, Modbury 5092
Tel: 264 9677

The Parks Community Education Centre,
Cowan Street, Angle Park 5010
Tel: 268 6339, refer 7200

6000 Whyalla College of Further Education,
P.O. Box 2661, Whyalla Norrie 5608
Tel: STD 086 45 9044

6200 Woomera College of Further Education,
P.O. Box 520, Woomera 5720
Tel: 011 W. 73 7289

6400 Yorke Peninsula College of Further Education,
P.O. Box 194, Kadina 5554
Tel: STD 088 21 1686

6600 Language and Migrant Education Centre,
240 Currie Street, Adelaide 5000
Tel: 51 3045

6800 S.A. College of External Studies,
208 Currie Street, Adelaide 5000
Tel: 51 5742

7000 Training and Development Centre,
46 Greenhill Road, Wayville 5034
Tel: 272 4622

7200 The Parks Community Education Centre,
Cowan Street, Angle Park 5010
Tel: 268 6339

50 000 External to the Department of Further Education

LIST OF DESCRIBING WORDS

Two kinds of descriptive words are included in this listing. They are topic index words and synonyms of these words.
A describing word such as further education, has adult education, continuing education and recurrent education as synonyms. This arrangement is shown in the list in the following way.

Example: FURTHER EDUCATION
S Adult education
Continuing education
Recurrent education

The reverse of the above entry requires the designation U (use) to identify the describing word.

Example: Adult Education
U FURTHER EDUCATION as a more general term

The designation M denotes 'means'. It is used whenever additional information is required.

Example: APPRENTICE
M Person who is taking a basic trade course.

Sometimes a more general term is used in place of a more precise term.

Example: Instructional Materials
U LEARNING AIDS as a more general term.

Summary of the symbols used and their meanings.

S—Synonym
U—Use
M—Means

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Aboriginal groups (Australian)
U ETHNIC GROUPS as a more general term

Abstract Bibliographies
U BIBLIOGRAPHY as a narrower term

Academic Performance
U PERFORMANCE as a more general term

Academic Progress
U PERFORMANCE as a more general term

Achievement Level
U PERFORMANCE as a more general term

ACCESS

Achievement Motivation
U MOTIVATION

Action Research
U RESEARCH as a more general term

ADMINISTRATION

Administrative Planning
U PLANNING

Adult Education
U FURTHER EDUCATION

Advanced Education
U POST-SECONDARY EDUCATION

Advertising
U PUBLICITY

ADULTS

AGENCIES
M Includes community, private and government agencies

AGRICULTURAL STUDIES

Aims
U OBJECTIVES as a narrower term

ANCILLARY SERVICES
M Services supplied by sub-professional and lower level staff

ANIMAL SCIENCE COURSE

Annotated Bibliography
U BIBLIOGRAPHY as a narrower term

Applied Research
U RESEARCH as a more general term

Applied Sciences
U TECHNOLOGY

APPRENTICES
M Person who is taking a basic trade course

Art Courses
U VISUAL COMMUNICATION COURSES

ASSESSMENT
S Tests
Examinations
Quizzes

ATTITUDES

Audio-visual Aids
U LEARNING AIDS

AUTOMATIC DATA PROCESSING
S Electronic Data Processing

AUTOMOTIVE ENGINEERING COURSES

AVIATION COURSES

Awareness
U PERCEPTION

Basic Research
U RESEARCH as a more general term

Basic Trade Personnel
U SKILLED LABOUR

BIBLIOGRAPHY

Booster Courses
U BRIDGING COURSES

BRIDGING COURSES
S Booster Courses

BUDGETING

Buildings
U RESOURCES as a more general term

BUILDING TRADE STUDIES

BUSINESS STUDIES

CATALOGUE

CHILD CARE

CHILDREN

COLLEGE OF FURTHER EDUCATION
S Community College
Further Education Centre
Technical College

COMMERCE

COMMERCIAL STUDIES

COMMUNITY

COMMUNITY STUDIES

Community Colleges
U COLLEGES OF FURTHER EDUCATION

COMPUTERS

Continuing Education
U FURTHER EDUCATION

Correspondence Courses
U EXTERNAL STUDIES as a broader term

COUNSELLING

COURSE DEVELOPMENT

COURSES

48

CRAFT STUDIES

CURRICULUM
M Total learning experiences of the student (the personal curriculum), and the structuring undertaken by an institution to provide that experience (the institutional curriculum or course(s) of study)

Curriculum content
U CURRICULUM as a broader term

CURRICULUM DEVELOPMENT
M Curriculum adaptation, changes, development and improvement projects.

Curriculum process
U CURRICULUM as a broader term

U LEARNING AIDS as a narrower term

Day Release
U STUDY RELEASE

Demographic Factors
U DEMOGRAPHY

DEMOGRAPHY
S Demographic Factors
Population Research
Population Studies

Deprived
U DISADVANTAGED GROUPS

Disadvantaged
U DISADVANTAGED GROUPS

DISADVANTAGED GROUPS
S Deprived
Disadvantaged
Under privileged

Discussion Groups (Without a teacher)
U EXTERNAL STUDIES

Drama
U PERFORMING ARTS

Dropouts
U RETENTION RATES

EDUCATIONAL SERVICES

Educational Materials
U LEARNING AIDS as a narrower term

ELECTRICAL COURSES

Electronic Data Processing
U AUTOMATIC DATA PROCESSING

ELECTRONICS COURSES

Emotional Development
U MENTAL DEVELOPMENT as a more general term

Employers
U INDUSTRY, COMMERCE or similar

Engineering Courses
U MECHANICAL ENGINEERING STUDIES

Enrichment Courses
U GENERAL STUDIES as a more general term

ENROLMENT
M Enrolment procedures and statistics

ENVIRONMENT
M Rural and urban environment

EQUIPMENT
M All equipment associated with colleges of further education e.g. in administration, classroom, workshop resource centre

ETHNIC GROUPS
M Includes migrant and Aboriginal groups

EVALUATION
M Evaluation in educational and technological areas—both formative and summative

Examinations
U ASSESSMENTS as the more general term

Experience on the job
U WORK EXPERIENCE

EXTERNAL STUDIES
M Studies for the 'external' student i.e. the student outside the classroom. Includes correspondence courses, independent study, self-directed learning, self-paced learning.

EXPERIENCE

Experimental Studies
U RESEARCH

Facilities (educational)
U RESOURCES as a more general term

FASHION COURSES
S Garment Construction Course

FOOD AND NUTRITION COURSES

Formative Evaluation
U EVALUATION as a more general term

Functional Illiteracy
U ILLITERACY as a more general term

FURTHER EDUCATION
S Adult Education
Continuing Education
Recurrent Education

FULL-TIME
M Full-time teachers and/or students

Further Education Centres
U COLLEGES OF FURTHER EDUCATION

Garment Construction Courses
U FASHION COURSES

GENERAL STUDIES
M Enrichment Courses and Matriculation Studies

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Goals
U OBJECTIVES

Graphic Arts Courses
U VISUAL COMMUNICATION COURSES as a more general term

GROUPS

HAIRDRESSING STUDIES

Handicapped
U DISADVANTAGED GROUPS

HEALTH COURSES

Home Study (individual and groups)
U EXTERNAL STUDIES as a more general term

HUMAN RELATIONSHIPS

ILLITERACY

Independent Study
U EXTERNAL STUDIES as a more general term

INDUSTRY

Innovation (Educational and Technological)
U RESEARCH as a more general term

IN-SERVICE EDUCATION
M Educational courses or programmes to provide further study to professional persons in teaching and non-teaching fields.
S In-service Training
Training and Development

In-service Training
U IN-SERVICE EDUCATION

INSTITUTIONS
M All educational and non-educational institutions

INSTRUCTION

Instructional Materials
U LEARNING AIDS as a more general term

Intellectual Development
U MENTAL DEVELOPMENT

Inventory
U CATALOGUE as a more general term

JEWELLERS COURSES

Job profile
U OCCUPATIONAL PROFILE as a more general term

LANGUAGE

LEARNING

Learning Aids
U LEARNING MATERIALS as a more general term

LEARNING MATERIALS
M Audio-visual aids, curriculum materials, educational materials, instructional materials, learning materials, multi-media materials, teaching materials

Learning Exchange
U EXTERNAL STUDIES as a more general term

Libraries
U RESOURCE CENTRES as a more general term

Learning Materials
U LEARNING AIDS

Linguistic performance
U PERFORMANCE as a more general term

LITERATURE REVIEW
S Research Review
Review of Literature

MANAGEMENT

MANPOWER DEVELOPMENT

MARKET RESEARCH

MARINE STUDIES

Matriculation Studies
U GENERAL STUDIES as a more general term

Mechanical Engineering Courses
U MECHANICAL ENGINEERING STUDIES

MECHANICAL ENGINEERING STUDIES
S Engineering Courses
Mechanical Engineering Courses

Mechanical Technology Instruction
U MECHANICAL ENGINEERING STUDIES as a more general term

Media
U LEARNING MATERIALS as a more general term

Media Equipment
U EQUIPMENT as a more general term

MEDICINE

MENTAL DEVELOPMENT
S Intellectual Development

METHODS
S Teaching methods
Methodology

Methodology
U METHODS

Migrants
U ETHNIC GROUPS as a more general term

MOTIVATION
S Achievement Motivation
Motivation Factors

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Motivation Factors
U MOTIVATION

Multi-media Materials
U LEARNING AIDS

Music Courses
U PERFORMING ARTS as a more general term

NEEDS

OBJECTIVES
S Goals

Occupation Training
U VOCATIONAL EDUCATION

OCCUPATIONAL SURVEY

OCCUPATIONS

On the Job Training
M Training conducted in a company school or arranged with professional agencies
U VOCATIONAL EDUCATION as a more general term

ORGANISATION

Organisational Plans
U PLANNING

Outreach
U PUBLICITY as a more specific term

PARTICIPATION

PART-TIME
M Part-time students and/or teachers

Pedagogy
U TEACHING

PERCEPTION
S Awareness

PERFORMANCE
M Includes academic, linguistic and task performance

PERFORMING ARTS

PHOTOGRAPHIC STUDIES

PLANNING
S Administrative Planning

PLUMBING COURSES

POLICY

Population Research
U DEMOGRAPHY

Population Studies
U DEMOGRAPHY

POST-SECONDARY EDUCATION
M Includes education supplied in colleges of further education, colleges of advanced education, and universities

PRE-SERVICE EDUCATION
S Pre-service Teacher Education

Pre-service Teacher Education
U PRE-SERVICE EDUCATION

PRIMARY EDUCATION

Programmes (educational)
U CURRICULUM as a more general term

Promotion
U PUBLICITY

PUBLICITY
S Advertising
Promotion (Publicity)

Pupils
U STUDENTS

QUALIFICATIONS
M Includes administrator, counsellor, employment, supervisor and teacher qualifications

Question Answer Forms
U QUESTIONNAIRE

QUESTIONNAIRE
S Question Answer Forms

Quizzes
U ASSESSMENT

REAL ESTATE COURSES

Recurrent Education
U FURTHER EDUCATION

Release Time
U STUDY RELEASE

REPORT

RESEARCH
M Includes applied and basic research, experimental and exploratory studies and all innovative-type activities in the educational and technological fields. Much of the research is carried out by people directly involved in teaching/learning.

Research Approach
U RESEARCH

Research Review
U LITERATURE REVIEW

Resource Centres
S LIBRARIES

RESOURCE CENTRES
S Libraries
Library Resource Centres

RESOURCES
M Includes physical and human resources

RETENTION RATE
S Dropouts

Retraining
U VOCATIONAL EDUCATION as a more general term

Review of Literature
U LITERATURE REVIEW

RURAL STUDIES

Rural Environment
U ENVIRONMENT

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SAFETY

SCHEDULING
S Timetabling

SECONDARY EDUCATION

Self-directed Learning
U EXTERNAL STUDIES

Self-paced Learning
U EXTERNAL STUDIES

Semi-skilled labour
U SKILLED LABOUR as a more general term

Services (Educational)
U EDUCATIONAL SERVICES

SKILLED LABOUR
M Worker who has completed a basic trade course
S Basic Trade Personnel

SKILLS

SKILL PROFILE

SOCIO-ECONOMIC STATUS

STATISTICAL ANALYSIS

Student Progress
U PERFORMANCE as a more general term

STUDENTS
S Pupils

Study Circles
U EXTERNAL STUDIES as a more general term

STUDY RELEASE
S Day Release
Release Time

Subjects
U COURSES as a more general term

Sub-professionals
U TECHNICIAN

Summative Evaluation
U EVALUATION as a more general term

SUPERVISION SUBJECTS

SURVEY COURSES

SURVEY

Task Performance
U PERFORMANCE as a more general term

Teacher Qualifications
U QUALIFICATIONS as a more general term

TEACHERS
S Instructors

TEACHING
S Pedagogy

Teaching Methodology
U METHODS

Teaching Materials
U LEARNING AIDS as a more general term

Teaching Areas
U CURRICULUM

Technical Colleges
U COLLEGES OF FURTHER EDUCATION

Technical Instruction
U TECHNICAL STUDIES as a more general term

TECHNICAL STUDIES
M A type of preparation for occupations in the skilled and semi-skilled ranges

TECHNICIANS
S Sub-professionals

Technoloical Research
U RESEARCH as a more general term

TECHNOLOGY
S Applied Sciences

Tests
U ASSESSMENT as a more general term

Textile Courses
U WOOL AND TEXTILE STUDIES

Timetabling
U SCHEDULING

TOURISM COURSES

Trainees
U STUDENTS as a more general term

Training
M Systematic process by which one learns new skills
U VOCATIONAL EDUCATION as a more general term

Training and Development
U IN-SERVICE EDUCATION

Under-privileged
U DISADVANTAGED GROUPS

UNEMPLOYMENT

University Education
U POST-SECONDARY EDUCATION as a more general term

UNSKILLED LABOUR
M Persons who have not completed a basic trade course

Urban Environment
U ENVIRONMENT as a more general term

VALUES

VISUAL COMMUNICATION COURSES

Vocational Courses
U VOCATIONAL EDUCATION

VOCATIONAL EDUCATION
M Formal preparation for an occupation
S Occupational Training
Vocational Courses
Vocational Training

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Vocational Training
U WORK EXPERIENCE

Vocational Training
U VOCATIONAL EDUCATION

WINE INDUSTRY COURSES

WOOL AND TEXTILE STUDIES
S Wool Courses
Textile Courses

Wool Courses
U WOOL AND TEXTILE STUDIES

Work
U WORK EXPERIENCE

WORK EXPERIENCE
S Experience on the job
Vocational experience
Work

Workshop Equipment
U EQUIPMENT as a more general term

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3. Typesetting, printing and distribution, or parts thereof of an author's report.

4. To liaise with, and visit colleges to provide information regarding the operation of, and services provided by the Clearinghouse.

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